

1998 SSM Indices

Key

January: 1-56	March: 113-168	May: 225-280	November: 353-408
February: 57-112	April: 169-224	October: 281-352	December: 409-464

Topical Index

Attitudes		In-Service	
calculus	117	assessment	26, 175
science	76		
Biology		Integration	
essential topics	12	benefits and barriers	438
Cerebral palsy		curriculum model	312
geometry	198	framework	320
College		in-service training	61
estimation	383	instruction	340
physics	238	learning	149
Conceptual		mathematics, science	328
organization	84	middle school	294
understanding, statistics	93	teacher beliefs	19
Cooperative learning		International achievement	
science teacher beliefs	123	mathematics, science	376
Curriculum		Internet	
culture	260	earth science	35
Elementary		Mathematics	
engagement	67	Catalan numbers	4
mathematics methods	136	problem posing	448
problem solving	205	Middle school	
Elementary science		attitudes, mathematics	412
with language arts	334	geometry	188
motivating teachers	181	Preservice teachers	
reforms	389	understanding perimeter/area	289
Fractions		assessment, mathematics	430
reasoning	247	Science standards	
High school		multidisciplinary	285
cognition, science	228	Secondary	
gender, physics	369	interdisciplinary	303
		modeling, science	420
		science assessment	140

Look through the list to determine the categories in which you are interested. Then look at the titles listed on page 451 (they are listed by page number). Finally, look at the key at the beginning of the index to see in which month or issue the article(s) of your choice can be found.

Author Index

Adams, Thomasenia Lott	175	Lubinski, Cheryl A.	247
Alibrandi, Marsha	140	Luft, Julie A.	26
Anderson, O. R.	228	Lumpe, Andrew T.	123
Baker, Amanda	198	Matthews, Michael R.	285
Bischoff, Paul J.	228	McComas, William F.	340
Bookman, Jack	117	Meier, Sherry L.	438
Cai, Jinfa	93	Menon, Ramakrishnan	361
Carroll, William M.	188	Miller, Kenneth W.	260
Chiappetta, Eugene L.	12	Morrell, Patricia D.	76
Cobbs, Georgia	438	Nichol, Marsha	438
Coltharp, Hazel	61	Nichols, Sharon E.	389
Czerniak, Charlene M.	123	Oktac, Asuman	4
Davison, David M.	260	Pinchback, Carolyn L.	149
DeFranco, Thomas C.	312	Rennie, Leoni	294
Dickinson, Valarie L.	238, 334	Reys, Barbara J.	383
Durden, Paul	198	Roebuck, Kay I.	328
English, Lyn D.	67	Scott, Steven A.	261
Feldman, Allan	140	Shaw, Kenneth L.	198
Fillman, David A.	12	Slater, Timothy F.	35, 61
Fixen, Robert	35	Somers, Laurie	430
Flick, Lawrence B.	239	Streitmatter, Janice	369
Foss, Donna H.	149	Thomason, Rebecca	247
Fox, Thomas	247	Tippins, Deborah	389
Friedman, Charles P.	117	Tooke, James D.	136
Glasgow, Bob	383	Treagust, David F.	420
Gonzales, Nancy A.	448	Venville, Grady	294
Haney, Jodi J.	123	Wallace, John	294
Harrison, Allan G.	420	Wang, Jianjun	376
Hsu, Jin-Wen Yang	175	Wang, HsingChi A.	340
Huntley, Mary Ann	19, 320	Warden, Melissa A.	328
Jarrett, Olga S.	181	Watanabe, Tad	19
Jurdak, Murad	412	Weber, William B., Jr.	430
Kloosterman, Peter	205	Weinland, Thomas P.	312
Koker, John	4	Weiseman, Katherine	389
Kropf., Aaron	140	Westbrook, Susan L.	84
Kuenzi, Norbert J.	4	Woodbury, Sonia	303
Lederman, Norman G.	76	Wurzbach, Linda	430
Lindstrom, Leonard C.	136	Young, Terrell A.	334
Lonning, Robert A.	312	Zein, Rihab Abu	412

Title Index

Page	Title
4	An Investigation of the Sequence of Catalan Numbers With Activities for Prospective Teachers
12	Clarifying the Place of Essential Topics and Unifying Principles in High School Biology
19	Connecting Mathematics and Science in Undergraduate Teacher Education Preparation
26	Alternatively Assessing an In-service Program
35	Two Models for K-12 Hypermediated Earth System Science Lessons Based on Internet Resources
61	A Telecommunications Project to Empower Kansas Elementary Level Teachers as Change Agents for Integrated Science and Mathematics Education
67	Children's Perspectives on the Engagement Potential of Mathematical Problem Tasks
76	Students' Attitudes Toward School and Classroom Science: Are They Independent Phenomena?
84	Examining the Conceptual Organization of Students in an Integrated Algebra and Physical Science Class
93	Exploring Students' Conceptual Understanding of the Averaging Algorithms
117	Student Attitudes and Calculus Reform
123	Science Teacher Beliefs and Intentions Regarding the Use of Cooperative Learning
136	Effectiveness of a Mathematics Methods Course in Reducing Math Anxiety of Preservice Elementary Teachers
140	Grading With Points: The Determination of Report Card Grades by High School Science Teachers
149	An Interdisciplinary Approach to Science, Mathematics, and Reading: Learning as Children Learn
174	Classroom Assessment: Teachers' Conceptions and Practices in Mathematics
181	Playfulness: A Motivator in Elementary Science Teacher Preparation
188	Geometric Knowledge of Middle School Students in a Reform-based Mathematics Curriculum
198	Learning How Amanda, a High School Cerebral Palsy Student, Understands Angles
205	Parent Involvement in Elementary Problem Solving
228	A Case Study Analysis of the Development of Knowledge Schema, Ideational Networks, and Higher Cognitive Operations Among High School Students Who Studied Ecology
238	Beating the System: Course Structure and Student Strategies in a Traditional Introductory Undergraduate Physics Course for Nonmajors
247	Learning to Make Sense of Division of Fractions: One K-8 Preservice Teacher's Perspective
260	An Ethnoscience Approach to Curriculum Issues for American Indian Students
285	How History and Philosophy in the US Science Education Standards Could Have Promoted Multidisciplinary Teaching
294	The Integration of Science, Mathematics, and Technology in a Discipline-Based Culture
303	Rhetoric, Reality, and Possibilities: Interdisciplinary Teaching and Secondary Mathematics
312	Development of Theme-based, Interdisciplinary, Integrated Curriculum: A Theoretical Model
320	Design and Implementation of a Framework for Defining Integrated Mathematics and Science Education
328	Searching for the Center on the Mathematics-Science Continuum
334	Elementary Science and Language Arts: Should We Blur the Boundaries?
340	Blended Science: The Rewards and Challenges of Integrating the Science Disciplines for Instruction
361	Preservice Teachers' Understanding of Perimeter and Area
369	Single-sex Classes: Female Physics Students State Their Case
376	International Achievement Comparison: Interesting Debates on Inconclusive Findings
383	The Authority of the Calculator in the Minds of College Students
389	Contemplating Criteria for Science Education Reform: The Case of the Olympia School District
412	The Effect of Journal Writing on Achievement in and Attitudes Toward Mathematics
420	Modelling in Science Lessons: Are There Better Ways to Learn With Models
430	Improving the Teaching and Learning of Mathematics: Performance-Based Assessment of Beginning Mathematics Teachers
438	Potential Benefits and Barriers to Integration
448	A Blueprint for Problem Posing

Regular Features

Book Reviews: S. Wali Abdi, Section Editor

<i>Theoretical Hydrodynamics</i>	48
<i>Leningrad Mathematics Olympiads 1987-1991</i>	48
<i>ARML-NYSML Contests 1989-1994</i>	49
<i>Collection of Problems on Smarandache Notions</i>	107
<i>Improving Teaching and Learning in Science and Mathematics</i>	108
<i>Mind-Boggling Astronomy</i>	108
<i>Mathematics Education: Models and Processes</i>	161
<i>What's Happening in Math Class?</i>	161
<i>Science on the Ice: An Antarctic Journal</i>	161
<i>Science as It Happens!</i>	213
<i>The Scientific 100</i>	213
<i>Of Men and Numbers: The Story of the Great Mathematicians</i>	214
<i>The Internet</i>	215

Early Days: J. Steve Oliver and B. Kim Nichols, Section Editors

<i>Ploughing with Pegasus</i>	41
<i>The Realm of Voluntary Attention</i>	156
<i>What Should Be Taught in the Course?</i>	216
<i>What Is the Purpose of Biology in Education?</i>	268
<i>This Condition of Widespread Ignorance</i>	400

Editorials: Norman G. Lederman and Margaret L. Niess, Journal Co-Editors

January:	How Informed Are Informal Educators?	1
February:	What's In Style?	57
March:	Intelligent Solutions to Our Society's Problems, or How Many Politicians Does It Take to Change a Light Bulb?	113
April:	Survival of the Fittest	169
May:	Publishing in School Science and Math: An Update	225
October:	5 Apples + 4 Oranges = ?	281
November:	Formally Clearing the Air: A Response to Simmons and Colleagues	357
December:	Separate and Not Equal	409

Problems: R. A. Gibbs and László Szűcs, Section Editors

Problems and Solutions appear in each issue.

Software/Technology Reviews: Jacqueline McDonald, Section Editor

<i>Selected World Wide Web Sites: Dinosaurs</i>	44
<i>Dinosaur Hunter</i>	45
<i>Microsoft Dinosaurs</i>	46
<i>Good Morning, Miss Toliver</i>	104
<i>Teacher Talk</i>	104
<i>The Eddie Files and The Kay Toliver Files</i>	105
<i>Web Workshop</i>	211
<i>The New Adventures of Jasper Woodbury</i>	266

SSMILes: Dyanne M. Tracy, Section Editor

No. 45:	Ancestry of Humans and Bees	99
	Author: Alfinio Flores	
No. 46:	Scaling Sharks	397
	Author: Jacqueline McDonald and Charlene Czerniak	

